

2/13 - (C) WPI / DERWENT

AN - 1997-014808 [02]

AP - JP19950112388 19950413

PR - JP19950112388 19950413

TI - Prepn. of fermented soln. of lactic acid used as food additive -  
comprises adding water to rice bran and/or unpolished rice,  
inoculating lactic acid bacterium, contacting with gas and applying  
ultrasonic waves.

IW - PREPARATION FERMENTATION SOLUTION LACTIC ACID FOOD ADDITIVE  
COMPRISE

ADD WATER RICE BRAN UNPOLISHED RICE INOCULATE LACTIC ACID  
BACTERIUM

CONTACT GAS APPLY ULTRASONIC WAVE

PA - (KYOS-N) KYOSHO JUAN KK

- (NAKA-I) NAKAJIMA K

PN - JP8280341 A 19961029 DW199702 A23L1/105 011pp

IC - A23L1/105 ; A23L1/30 ; ---A23L2/38--- ; C12P1/04

AB - J08280341 Prepn. of a fermented soln. of lactic acid comprises adding  
water to rice bran and/or unpolished rice powder, subjecting the mixt.  
to a specified treatment, inoculating a lactic acid bacterium to  
ferment, contacting the obtd. fermented soln. with gas, applying  
ultrasonic waves to the soln. and/or irradiating the soln. Pref. the  
treatment comprises adding water to bran and/or powder, adding a  
liquefaction type amylase to the mixt., heat-treating the mixt. to  
liquefy starch adding a cellulase, a protease and a saccharification  
type amylase to treat the mixt. enzymatically and centrifuging or  
filtrating the treated soln. to remove the fat and oil portion.  
Alternatively, the treatment comprises adding water to the bran and/or  
powder, stirring the mixt. and filtrating or centrifuging the mixt. to  
obtain an extract soln., adding a saccharide to the soln. and  
disinfecting the extract soln.

- Pref. gas-contacting aeration, deaeration or stirring shaking. The  
bacterium is pref. ---Lactobacillus--- bifidus, L. acidophilus or  
Streptococcus faecalis.

- USE/ADVANTAGE - The soln. is used as an additive for foods and drinks  
and a ---vitamin---supplementing agent. The method produces a  
fermented soln. having low odour of the bran and good flavour. The  
soln is rich in various ---vitamins--- and lactic acid bacteria and  
improves the intestinal colony.(Dwg.0/9)

1

1

1

1